LWG vs **EPA** Alternatives RALs

Alternatives		PCBs (ug/kg)		BaP EQ (mg/kg)		Sum DDE/DDx (ug/kg)		2,3,4,7,8-PeCDF (pg/g)		Benthic Risk	
LWG	EPA	LWG	EPA	LWG	EPA	LWG-DDE	EPA-DDx*	LWG	EPA**	LWG	EPA
В	В	1000	1000	20	20	1000	develop		?	MQ<0.7 @ t=10	Plus L2 & L3
С	С	750	750	15	15	1000	develop		?	MQ<0.7 @ t=0	Plus L2 & L3
D	D	500	500	8	8	200	develop		?	MQ<0.7 @ t=0	Plus L2 & L3
E	E	200	200	8	8	200	develop		?	MQ<0.7 @ t=0	Plus L2 & L3
F	F	PRG HT	100	PRG HT	4	PRG HT	develop	PRG HT	20***	MQ<0.7 @ t=0	Plus L2 & L3
	G		50		0.4		develop		1.5		Plus L2 & L3

^{*}EPA's comments asks for DDx RALs consistent with Arkema's Early Action. However, it is not clear how the effectiveness could be evaluated because there are no PRGs for DDx.

EPA's comment states that RALs must be developed for all risk drivers (cancer risk>10⁻⁴ or HQ>1)

GSI's Analysis of PeCDF congener and total dioxin/furan TEQ

2,3,4,7,8- PeCDF	Total d/f TEQ
50	150
20	60
10	30
5	20
3	15
1.5	5

Total d/f TEQ	Lower Duwamish Revised FS
50	Max incremental SWAC reduction
35	Incremental SWAC reduction
20	Incremental SWAC reduction
15	Point of minimal Change in SWAC (~ bkgd).

^{**}EPA's comment states ug/kg, but they probably meant pg/g.

^{***} Based on an initial analysis by GSI, this value would be more consistent with an Alternative B or C. Need clarification from EPA.